### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

Claim 1. (Currently amended)

An apparatus for extracting representative still images from Moving Picture Experts Group (MPEG) video, comprising:

- a user requirement input unit for inputting a number n from the user to divide the video curve into n segments, where n is a positive integer;
- a video curve generation unit for calculating <a href="maximum">maximum</a>
  distances between adjacent frames of all <a href="intra-frames">intra-frames</a>
  <a href="I-frames">I-frames</a>
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- a video curve division unit for dividing the video curve into a certain number of segments the n segments using nth-order approximation line and nth-order approximation tangent point;
- a still image selection unit for selecting video images corresponding to eertain points the nth-order approximation tangent points of the divided video curve as representative still images; and, where the nth-order approximation tangent points are the points on the video curve which have the maximum distances between themselves and the nth-order approximation line; and

Appln. SN 10/573,439 Amdt. Dated July 2, 2009 Reply to Office Action of April 3, 2009

a video output unit for outputting the still images selected by the still image generation unit.

#### Claim 2. (Canceled)

# Claim 3. (Currently amended)

The apparatus according to claim 1, wherein the video curve generation unit comprises:

an intra frame selection unit for selecting an intra frame from the input video;

at least one <u>Y picture</u> <u>Luminance</u> selection unit for selecting only Direct Current (DC) coefficients from Discrete Cosine Transform (DCT) coefficients of a <u>Y picture Luminance</u> <u>value(Y)</u> on the selected intra frame;

at least one cumulative DC histogram generation unit for extracting a cumulative histogram of the DC coefficients;

at least one frame distance generation unit for calculating a maximum distance between cumulative histograms of adjacent intra frames and determining the maximum distance to be a distance between two adjacent frames; and

a cumulative frame distance histogram generation unit for acquiring the video curve, that is, a cumulative curve, from the distance between the adjacent frames of the selected intra frames when the distance between the adjacent frames is calculated through the \*\*Pieture\*\* Luminance\*\* selection unit, the cumulative DC histogram generation unit and the frame distance generation unit.

Appln. SN 10/573,439 Amdt. Dated July 2, 2009 Reply to Office Action of April 3, 2009

#### Claim 4. (Currently amended)

A method of extracting representative still images from MPEG video, comprising the steps of:

generating a video curve, that is, a cumulative curve of distances between adjacent frames of all frames of input video, by calculating the distances between the frames;

getting a number n(n is a positive integer) from user or system to choose the number of still images;

calculating maximum distances between adjacent frames of
all I-frames' cumulative DC histogram values of input video;
generating a video curve that is a cumulative curve of the
maximum distances;

dividing the video curve into a certain number of segments
the n segments using nth-order approximation line and nth-order
approximation tangent point;

selecting video images corresponding to eertain points the nth-order approximation tangent points of the divided video curve as representative still images, where the nth-order approximation tangent points are the points on the video curve which have the maximum distances between themselves and the nth-order approximation line; and

outputting all or some of the selected still images.

a video output unit for outputting the still images
selected by the still image generation unit.

# Claim 5. (Currently amended)

The method according to claim 4, wherein the <u>said</u> step of generating the video curve comprises the steps of:

selecting an intra frame of the input video;

Appln. SN 10/573,439 Amdt. Dated July 2, 2009 Reply to Office Action of April 3, 2009

selecting only DC coefficients from DCT coefficients of a ¥
picture Luminance value(Y) on the selected intra frame;
extracting a cumulative histogram of the DC coefficients;
calculating a maximum distance between cumulative
histograms of adjacent intra frames and determining the maximum
distance to be a distance between two neighboring frames; and
acquiring the video curve, that is, a cumulative curve of
distances between neighboring frames of all selected intra
frames, by calculating the distances between the adjacent
frames.